

Release notes for ENDF/B Development n-016_S_032
evaluation

ENDF
B-VII.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=1625, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=1625, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 174 TO 240
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=1625, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=1625, MF= 1, MT=451
MOD = 3 OUT OF RANGE 0 - 0 RECORD NUMBER 174
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=1625, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY RECORD NUMBER 242
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=1625, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY RECORD NUMBER 334
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=1625, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY RECORD NUMBER 357
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=1625, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY RECORD NUMBER 380
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=1625, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 394
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=1625, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 400

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=1625, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 408

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=1625, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 415

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=1625, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 427

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=1625, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 438

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 3, MT= 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=1625, MF= 3, MT= 54
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 449

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 3, MT= 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=1625, MF= 3, MT= 55
SECTION 3/ 55 NOT IN DIRECTORY RECORD NUMBER 459

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 3, MT= 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=1625, MF= 3, MT= 56
SECTION 3/ 56 NOT IN DIRECTORY RECORD NUMBER 469

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 3, MT= 91 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=1625, MF= 3, MT= 91 | RECORD NUMBER | 479 |
| SECTION 3/ 91 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 3, MT=102 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=1625, MF= 3, MT=102 | RECORD NUMBER | 489 |
| SECTION 3/102 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 3, MT=103 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=1625, MF= 3, MT=103 | RECORD NUMBER | 505 |
| SECTION 3/103 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 3, MT=107 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=1625, MF= 3, MT=107 | RECORD NUMBER | 521 |
| SECTION 3/107 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 4, MT= 2 (0): Directory (b)
- | | | |
|--|---------------|-----|
| ERROR(S) FOUND IN MAT=1625, MF= 4, MT= 2 | RECORD NUMBER | 536 |
| SECTION 4/ 2 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 4, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=1625, MF= 4, MT= 16 | RECORD NUMBER | 693 |
| SECTION 4/ 16 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 4, MT= 22 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=1625, MF= 4, MT= 22 | RECORD NUMBER | 696 |
| SECTION 4/ 22 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 4, MT= 28 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=1625, MF= 4, MT= 28 | RECORD NUMBER | 699 |
| SECTION 4/ 28 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 4, MT= 51 (0): Directory (b)

- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=1625, MF= 4, MT= 51 | | |
| | SECTION 4/ 51 NOT IN DIRECTORY | RECORD NUMBER | 702 |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 4, MT= 52 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=1625, MF= 4, MT= 52 | | |
| | SECTION 4/ 52 NOT IN DIRECTORY | RECORD NUMBER | 803 |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 4, MT= 53 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=1625, MF= 4, MT= 53 | | |
| | SECTION 4/ 53 NOT IN DIRECTORY | RECORD NUMBER | 892 |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 4, MT= 54 (0): Directory (b)
- | | | | |
|--|---|---------------|-----|
| | ERROR(S) FOUND IN MAT=1625, MF= 4, MT= 54 | | |
| | SECTION 4/ 54 NOT IN DIRECTORY | RECORD NUMBER | 978 |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 4, MT= 55 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF= 4, MT= 55 | | |
| | SECTION 4/ 55 NOT IN DIRECTORY | RECORD NUMBER | 1060 |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 4, MT= 56 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF= 4, MT= 56 | | |
| | SECTION 4/ 56 NOT IN DIRECTORY | RECORD NUMBER | 1126 |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 4, MT= 91 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF= 4, MT= 91 | | |
| | SECTION 4/ 91 NOT IN DIRECTORY | RECORD NUMBER | 1204 |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 5, MT= 16 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF= 5, MT= 16 | | |
| | SECTION 5/ 16 NOT IN DIRECTORY | RECORD NUMBER | 1234 |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 5, MT= 22 (0): Directory (b)

- ERROR(S) FOUND IN MAT=1625, MF= 5, MT= 22
SECTION 5/ 22 NOT IN DIRECTORY RECORD NUMBER 1300
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 5, MT= 28 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1625, MF= 5, MT= 28
SECTION 5/ 28 NOT IN DIRECTORY RECORD NUMBER 1460
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF= 5, MT= 91 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1625, MF= 5, MT= 91
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 1600
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=12, MT= 16 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1625, MF=12, MT= 16
SECTION 12/ 16 NOT IN DIRECTORY RECORD NUMBER 1793
35. Missing a gamma spectrum for continuum of gammas
MAT=1625, MF=12, MT= 16 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=1625, MF=12, MT= 16
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=12, MT= 22 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1625, MF=12, MT= 22
SECTION 12/ 22 NOT IN DIRECTORY RECORD NUMBER 1799
37. Missing a gamma spectrum for continuum of gammas
MAT=1625, MF=12, MT= 22 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=1625, MF=12, MT= 22
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=12, MT= 28 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1625, MF=12, MT= 28
SECTION 12/ 28 NOT IN DIRECTORY RECORD NUMBER 1807
39. Missing a gamma spectrum for continuum of gammas
MAT=1625, MF=12, MT= 28 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=1625, MF=12, MT= 28
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

40. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=1625, MF=12, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=1625, MF=12, MT= 51
SECTION 12/ 51 NOT IN DIRECTORY RECORD NUMBER 1816

41. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=1625, MF=12, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=1625, MF=12, MT= 52
SECTION 12/ 52 NOT IN DIRECTORY RECORD NUMBER 1820

42. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=1625, MF=12, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=1625, MF=12, MT= 53
SECTION 12/ 53 NOT IN DIRECTORY RECORD NUMBER 1824

43. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=1625, MF=12, MT= 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=1625, MF=12, MT= 54
SECTION 12/ 54 NOT IN DIRECTORY RECORD NUMBER 1829

44. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=1625, MF=12, MT= 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=1625, MF=12, MT= 55
SECTION 12/ 55 NOT IN DIRECTORY RECORD NUMBER 1834

45. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=1625, MF=12, MT= 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=1625, MF=12, MT= 56
SECTION 12/ 56 NOT IN DIRECTORY RECORD NUMBER 1839

46. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=1625, MF=12, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=1625, MF=12, MT= 91
SECTION 12/ 91 NOT IN DIRECTORY RECORD NUMBER 1844

47. Missing a gamma spectrum for continuum of gammas

MAT=1625, MF=12, MT= 91 (1): No gamma spectrum

ERROR(S) FOUND IN MAT=1625, MF=12, MT= 91
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15

48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=12, MT=102 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1625, MF=12, MT=102
SECTION 12/102 NOT IN DIRECTORY RECORD NUMBER 1854
49. Missing a gamma spectrum for continuum of gammas
MAT=1625, MF=12, MT=102 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=1625, MF=12, MT=102
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=12, MT=103 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1625, MF=12, MT=103
SECTION 12/103 NOT IN DIRECTORY RECORD NUMBER 1868
51. Missing a gamma spectrum for continuum of gammas
MAT=1625, MF=12, MT=103 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=1625, MF=12, MT=103
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=12, MT=107 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1625, MF=12, MT=107
SECTION 12/107 NOT IN DIRECTORY RECORD NUMBER 1879
53. Missing a gamma spectrum for continuum of gammas
MAT=1625, MF=12, MT=107 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=1625, MF=12, MT=107
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=14, MT= 16 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1625, MF=14, MT= 16
SECTION 14/ 16 NOT IN DIRECTORY RECORD NUMBER 1892
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=14, MT= 22 (0): Directory (b)
- ERROR(S) FOUND IN MAT=1625, MF=14, MT= 22
SECTION 14/ 22 NOT IN DIRECTORY RECORD NUMBER 1894
56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=14, MT= 28 (0): Directory (b)

- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF=14, MT= 28 | | |
| | SECTION 14/ 28 NOT IN DIRECTORY | RECORD NUMBER | 1896 |
57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=14, MT= 51 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF=14, MT= 51 | | |
| | SECTION 14/ 51 NOT IN DIRECTORY | RECORD NUMBER | 1898 |
58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=14, MT= 52 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF=14, MT= 52 | | |
| | SECTION 14/ 52 NOT IN DIRECTORY | RECORD NUMBER | 1900 |
59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=14, MT= 53 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF=14, MT= 53 | | |
| | SECTION 14/ 53 NOT IN DIRECTORY | RECORD NUMBER | 1902 |
60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=14, MT= 54 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF=14, MT= 54 | | |
| | SECTION 14/ 54 NOT IN DIRECTORY | RECORD NUMBER | 1904 |
61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=14, MT= 55 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF=14, MT= 55 | | |
| | SECTION 14/ 55 NOT IN DIRECTORY | RECORD NUMBER | 1906 |
62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=14, MT= 56 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF=14, MT= 56 | | |
| | SECTION 14/ 56 NOT IN DIRECTORY | RECORD NUMBER | 1908 |
63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=14, MT= 91 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF=14, MT= 91 | | |
| | SECTION 14/ 91 NOT IN DIRECTORY | RECORD NUMBER | 1910 |
64. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=14, MT=102 (0): Directory (b)

- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF=14, MT=102 | | |
| | SECTION 14/102 NOT IN DIRECTORY | RECORD NUMBER | 1912 |
65. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=14, MT=103 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF=14, MT=103 | | |
| | SECTION 14/103 NOT IN DIRECTORY | RECORD NUMBER | 1914 |
66. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=14, MT=107 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF=14, MT=107 | | |
| | SECTION 14/107 NOT IN DIRECTORY | RECORD NUMBER | 1916 |
67. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=15, MT= 16 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF=15, MT= 16 | | |
| | SECTION 15/ 16 NOT IN DIRECTORY | RECORD NUMBER | 1919 |
68. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=15, MT= 22 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF=15, MT= 22 | | |
| | SECTION 15/ 22 NOT IN DIRECTORY | RECORD NUMBER | 1953 |
69. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=15, MT= 28 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF=15, MT= 28 | | |
| | SECTION 15/ 28 NOT IN DIRECTORY | RECORD NUMBER | 2067 |
70. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=15, MT= 91 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF=15, MT= 91 | | |
| | SECTION 15/ 91 NOT IN DIRECTORY | RECORD NUMBER | 2182 |
71. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=15, MT=102 (0): Directory (b)
- | | | | |
|--|---|---------------|------|
| | ERROR(S) FOUND IN MAT=1625, MF=15, MT=102 | | |
| | SECTION 15/102 NOT IN DIRECTORY | RECORD NUMBER | 2483 |
72. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=15, MT=103 (0): Directory (b)

ERROR(S) FOUND IN MAT=1625, MF=15, MT=103
SECTION 15/103 NOT IN DIRECTORY

RECORD NUMBER 3172

73. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=1625, MF=15, MT=107 (0): Directory (b)

ERROR(S) FOUND IN MAT=1625, MF=15, MT=107
SECTION 15/107 NOT IN DIRECTORY

RECORD NUMBER 3468

• **psyche** Warnings:

1. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 32. L = 0 / AT RESONANCE ENERGY 8.84590E+05 EV. THE GAMMA WIDTH 1.89200E+01 DEVIATES TOO MUCH FROM THE AVERAGE 2.68395E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 32. L = 0

AT RESONANCE ENERGY 8.84590E+05 EV. THE GAMMA WIDTH 1.89200E+01 DEVIATES TOO MUCH FROM THE AV

2. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 32. L = 0 / AT RESONANCE ENERGY 1.00780E+06 EV. THE GAMMA WIDTH 6.70000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 2.68395E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 32. L = 0

AT RESONANCE ENERGY 1.00780E+06 EV. THE GAMMA WIDTH 6.70000E-01 DEVIATES TOO MUCH FROM THE AV

AT RESONANCE ENERGY 1.00780E+06 EV. THE GAMMA WIDTH 6.70000E-01 DEVIATES TOO MUCH FROM THE AV

3. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 32. L = 0 / AT RESONANCE ENERGY 1.04650E+06 EV. THE GAMMA WIDTH 5.60000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 2.68395E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 32. L = 0

AT RESONANCE ENERGY 1.04650E+06 EV. THE GAMMA WIDTH 5.60000E-01 DEVIATES TOO MUCH FROM THE AV

4. Strength function in URR not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 32. L = 0 / STRENGTH FUNCTION IS 5.80053E-05 / STRENGTH FUNCTION 5.80053E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 9.00000E-04 (0): URR str. ftn.

FILE 2

SECTION 151

ISOTOPE MASS = 32. L = 0

STRENGTH FUNCTION IS 5.80053E-05

STRENGTH FUNCTION 5.80053E-05

... [1 more lines]

5. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 32. L = 1 / AT RESONANCE ENERGY 9.75000E+04 EV. THE GAMMA WIDTH 3.23000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.22571E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 32. L = 1

AT RESONANCE ENERGY 9.75000E+04 EV. THE GAMMA WIDTH 3.23000E-01 DEVIATES TOO MUCH FROM THE AV

6. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 32. L = 1 / AT RESONANCE ENERGY 2.72080E+05 EV. THE GAMMA WIDTH 4.52000E+00 DEVIATES TOO MUCH FROM THE AVERAGE 1.22571E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 32. L = 1

AT RESONANCE ENERGY 2.72080E+05 EV. THE GAMMA WIDTH 4.52000E+00 DEVIATES TOO MUCH FROM THE AV

7. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 32. L = 1 / AT RESONANCE ENERGY 7.40850E+05 EV. THE GAMMA WIDTH 3.90000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.22571E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 32. L = 1

AT RESONANCE ENERGY 7.40850E+05 EV. THE GAMMA WIDTH 3.90000E-01 DEVIATES TOO MUCH FROM THE AV

8. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 32. L = 1 / AT RESONANCE ENERGY 7.78650E+05 EV. THE GAMMA WIDTH 3.30000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 1.22571E+00 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 32. L = 1

AT RESONANCE ENERGY 7.78650E+05 EV. THE GAMMA WIDTH 3.30000E-01 DEVIATES TOO MUCH FROM THE AV

- fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved / MultiLevel_BreitWigner (Error # 0): missingResonanceChannel

WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"

WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"

WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"

WARNING: Missing a channel with angular momenta combination L = 1, J = 2.5 and S = 1.5 for "capture"

... plus 4 more instances of this message

2. Potential scattering hasn't converted, you need more L's!
resonances / resolved (Error # 1): potentialScatteringNotConverged

WARNING: Potential scattering hasn't converged by L=1 at E=1565850.0 eV, xs[1]/xs[0]=0.133376281137% > 0.1%

3. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.14%

• fudge-4.0 Errors:

1. Energy range of data set does not match cross section range
reaction label 7: $n + (S32_c \rightarrow S32 + \text{gamma})$ / Product: $S32_c$ / Decay product: gamma / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (5570350.0 -> 20000000.0) vs (5570360.0 -> 20000000.0)

2. Energy range of data set does not match cross section range
reaction label 7: $n + (S32_c \rightarrow S32 + \text{gamma})$ / Product: $S32_c$ / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (5570350.0 -> 20000000.0) vs (5570360.0 -> 20000000.0)

3. Energy range of data set does not match cross section range
reaction label 7: $n + (S32_c \rightarrow S32 + \text{gamma})$ / Product: $S32_c$ / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (5570350.0 -> 20000000.0) vs (5570360.0 -> 20000000.0)

4. Calculated and tabulated Q values disagree.
reaction label 8: $n[\text{multiplicity: '2'}] + S31 + \text{gamma}$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -15150946.33877182 eV vs -1.5088e7 eV!

5. Calculated and tabulated Q values disagree.
reaction label 9: $n + H1 + P31 + \text{gamma}$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8972362.467891693 eV vs -8863910. eV!

6. Calculated and tabulated Q values disagree.
reaction label 10: $S33 + \text{gamma}$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 8533035.448249817 eV vs 8642990. eV!

7. Calculated and tabulated Q values disagree.
reaction label 11: $n + He4 + Si28 + \text{gamma}$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7056396.152996063 eV vs -6948130. eV!

8. Calculated and tabulated Q values disagree.
reaction label 12: $H1 + (P32_s \rightarrow P32 + \text{gamma})$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -1036712.488903046 eV vs -927629. eV!

9. Calculated and tabulated Q values disagree.
reaction label 13: $He4 + (Si29_s \rightarrow Si29 + \text{gamma})$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 1417170.642250061 eV vs 1525750. eV!

- njoy2012 Warnings:

1. Evaluation has no unresolved resonance parameters given
unresr...calculation of unresolved resonance cross sections (0): No URR

```
---message from unresr---mat 1625 has no unresolved parameters
copy as is to nout
```

2. Evaluation has no unresolved resonance parameters given
purr...probabalistic unresolved calculation (0): No URR

```
---message from purr---mat 1625 has no unresolved parameters
copy as is to nout
```

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

```
---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided
```

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)

```
---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided
```

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)

```
---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided
```

6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
groupr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)

```
---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided
```